

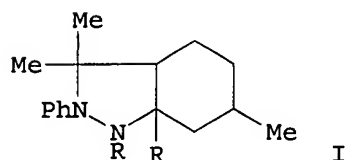
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L9 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 2002:816739 Document No. 138:55905 Asymmetric Intramolecular [3 + 2]
 Cycloaddition Reactions of Acylhydrazones/Olefins Using a Chiral Zirconium
 Catalyst. Kobayashi, Shu; Shimizu, Haruka; Yamashita, Yasuhiro; Ishitani,
 Haruro; Kobayashi, Jun (Graduate School of Pharmaceutical Sciences,
 University of Tokyo, Hongo, KY, 113-0033, USA). Journal of the American
 Chemical Society, 124(46), 13678-13679 (English) 2002. CODEN: JACSAT.
 ISSN: 0002-7863. OTHER SOURCES: CASREACT 138:55905. Publisher: American
 Chemical Society.

AB Catalytic asym. intramol. [3 + 2] cycloaddn. of hydrazone/olefins has been
 attained. In the presence of a chiral zirconium catalyst prepared from
 zirconium alkoxide and a BINOL derivative, the desired pyrazolidine derivs.
 were obtained in high yields with high selectivities. The products were
 easily converted to 1,3-diamine or β -aminonitrile derivs. by N-N bond
 cleavage.

L9 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
 1981:462065 Document No. 95:62065 (3++2) Intramolecular cationic
 cycloadditions and 1,3-dipolar cycloadditions of phenylhydrazones.
 Fouchet, B.; Joucla, M.; Hamelin, J. (Dep. Phys. Crist. Chim. Struct.,
 Univ. Rennes, Rennes, 35042, Fr.). Tetrahedron Letters, 22(14), 1333-6
 (French) 1981. CODEN: TELEAY. ISSN: 0040-4039. OTHER SOURCES: CASREACT
 95:62065.

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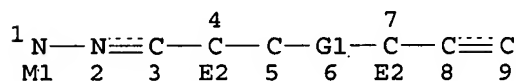


AB In acidic medium, alkenyl phenylhydrazones cyclized to give fused ring
 systems, probably by a (3+ + 2) cationic cycloaddn. E.g.,
 $\text{Me}_2\text{C}:\text{CH}(\text{CH}_2)_2\text{CHMeCH}_2\text{CH}:\text{NNHPh}$ (AcOH, H_2SO_4) gave an 80:20 mixture of I (R = H)
 (II) and I (R₂ = bond) (III). II was rapidly oxidized to III and could
 not be obtained pure. In some cases, e.g., the reaction of citral, the
 species corresponding to II could not be isolated.

=> d 11

L1 HAS NO ANSWERS

L1 STR



VAR G1=C/O/S/N

NODE ATTRIBUTES:

HCOUNT IS M1 AT 1

HCOUNT IS E2 AT 4

HCOUNT IS E2 AT 7

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

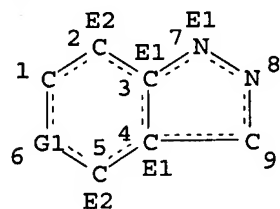
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

=> d l4

L4 HAS NO ANSWERS

L4 STR



VAR G1=C/S/N/O

NODE ATTRIBUTES:

HCOUNT IS E2 AT 2

HCOUNT IS E1 AT 3

HCOUNT IS E1 AT 4

HCOUNT IS E2 AT 5

HCOUNT IS E1 AT 7

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE

=> d his

(FILE 'HOME' ENTERED AT 13:18:02 ON 09 JUL 2007)

FILE 'REGISTRY' ENTERED AT 13:20:46 ON 09 JUL 2007

L1 STR
L2 3 S L1
L3 128 S L1 FUL
L4 STR
L5 0 S L4
L6 58 S L4 FUL

FILE 'CAPLUS' ENTERED AT 13:29:13 ON 09 JUL 2007

L7 133 S L3
L8 33 S L6
L9 5 S L7 AND L8

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